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## PATENT SPECIFICATION



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431.721

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Complete Specification Accepted: July 15, 1935.

## PROVISIONAL SPECIFICATION

## Improvements relating to Cigarette Cartons

I, CHARLES JAMES MILLAR, of British Nationality, of 46 Airthrey Avenue, Jordanhill, Glasgow, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in cigarette cartons of the drawer and shell type and has for an object to permit more convenient extraction of the cigarettes. A further object is to retain the remaining cigarettes in parallelism after extraction of part of the number supplied with the carton, so as to prevent the tobacco from working loose due to displacement of the cigarettes in the carton.

According to the invention the drawer is so shaped that the upper ends of the cigarettes are exposed all round on opening the carton, the drawer being preferably adapted to slide out sideways from either side.

If the carton is to hold two rows of cigarettes, the rows may be separated by means of a partition or partitions or a strip or strips hinged at one end or at both ends.

Or the drawer may be constituted by two juxtaposed or superposed half-drawers or sections hinged at one end or at or near the middle, and preferably urged apart by spring action, causing the rows of cigarettes to diverge as they emerge from the shell and thus present two spaced lines of cigarettes. An advantageous feature of this construction is that when the complete drawer is removed from the shell, the drawer can be made to stand upright on a table for example,

constituting a cruciform structure or as a V-shaped structure as seen in plan. 40

Alternatively, the drawer sections may be hinged together at the bottom of the drawer instead of at or near the middle or at the end.

To retain the cigarettes in parallelism, the walls of the drawer and the partition, if provided, may be indented along parallel lines spaced apart a distance equal to the thickness of a cigarette or of a group of cigarettes. Such indentations need not be of the full depth of the drawer and may be continuous or interrupted. 45

Alternatively, there may be inserted in the drawer a lining of crepe paper or of indented or corrugated paper. 50

In a modified construction the shell is made open at one side but closed at the other side save for an elongated hole wide enough to admit a finger. In this case the drawer is made in two portions, one sliding within the other at the end remote from the closed side of the shell. 55

There may be incorporated in the carton a fitting adapted to lift the two end cigarettes at one time. 60

The carton is opened by inserting the finger in the elongated hole, this action having the effect of holding the cigarettes together and at the same time placing other cigarettes in position ready to be extracted. 65

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Agents for the Applicant. 70

## COMPLETE SPECIFICATION

## Improvements relating to Cigarette Cartons

I, CHARLES JAMES MILLAR, of British Nationality, of 46 Airthrey Avenue, Jordanhill, Glasgow, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in cigarette cartons or boxes of the drawer and shell type devised to permit convenient extraction of the cigarettes.

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It has previously been proposed so to shape the side walls of the drawer at the top of the drawer that the cigarettes are exposed for a portion of their length on opening the carton. 85

It has further been proposed to fit such drawers so that they may be swung out sideways in an arc. 90

It has also been proposed to fit the drawer so that it may be slid out sideways rectilinearly. In the last mentioned

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construction a small cut out was provided in the side walls at the upper edge.

The invention consists in an improved construction in which the side walls of the drawer are formed at the upper edge with a cut away extending from end to end, the drawer being fitted to slide out sidewise rectilinearly and being completely covered by the shell when pushed back into the shell.

The drawer may be constituted by two juxtaposed or superposed half-drawers or sections hinged together book-fashion so that when the complete drawer is removed from the shell, the drawer can be made to stand upright on a table for example, constituting a V-shaped structure as seen in plan.

Alternatively, the drawer may be provided with a flap or flaps so that the drawer may be stood in substantially upright position.

Cigarette cartons or boxes constructed in accordance with the invention are illustrated in the accompanying drawings, in which Fig. 1 is a perspective view of a first embodiment, Figs. 2—5 detail detached views of a second embodiment, Fig. 6 a perspective view of a fourth embodiment, and Figs. 7—12 fragmentary views of modified details.

The cigarette carton or box shown in Fig. 1 comprises an open-ended shell 1 and a drawer 2 slidable sidewise into and out of the shell 1 through either end thereof. The side walls of the drawer 2 are so cut away at their upper edges at 3 that, when the drawer is withdrawn, substantially all of the cigarettes are exposed at their upper ends for a considerable portion of their length, thereby facilitating extraction of the cigarettes from the drawer.

In the modification shown in Figs. 2—5, the shell 1 is closed at one end and is provided with a transparent roof panel 4. Fixed within the closed end of the shell, is as a blade spring 5 which serves, on release of a detent indicated conventionally at 6 at the front end of the shell, to expel or partially to expel, the drawer 2 through the open end of the shell 1. The shell 1 may be provided internally with guides 7 engageable by guideways 8 formed in the side walls of the drawer 2.

In the further modification shown in Fig. 6, the drawer comprises a pair of half drawer sections 2<sup>a</sup>, 2<sup>b</sup>, respectively, hinged together at 10 at one end and separable book-wise after withdrawal from the shell (not shown). The sections 2<sup>a</sup>, 2<sup>b</sup>

may be urged apart by the action of a spring incorporated in the hinge. As will be understood, when the sections 2<sup>a</sup>, 2<sup>b</sup> are disposed at about right angles to each other, they will be self-sustaining in upright position when deposited on a table or the like.

As shown in Figs. 7 and 8, there may be incorporated in the base of the drawer a pivoted panel 11 adapted to be rotated into a position at right angles to the drawer in order to prevent the drawer from toppling over when deposited on a table. Alternatively, the base of the drawer may include hinged flaps 12 (Figs. 9 and 10) openable outwardly as shown in Fig. 10, or, the drawer may incorporate hinged arms 13 (Figs. 11 and 12) foldable outwardly and downwardly in order to engage the table or the like as shown in Fig. 11.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

(1). A cigarette carton or box including a shell and a drawer, in which the side walls of the shell are provided at the upper edge with a cut away extending from end to end and in which the drawer is fitted to slide out sidewise rectilinearly, and is completely covered by the shell when pushed back into the shell.

(2). A cigarette carton or box as claimed in claim 1 in which the drawer is withdrawable through either end of the shell.

(3). A cigarette carton or box as claimed in claim 1 in which the drawer is self-opening under the action of a spring.

(4). A cigarette carton or box as claimed in claim 1 in which the drawer comprises a pair of hingedly interconnected half-drawers openable book-wise.

(5). A cigarette carton or box according to any of the preceding claims in which the drawer has provision for sustaining it in upright position on a table or the like.

(6). A cigarette carton or box constructed as hereindescribed with reference to Fig. 1, or Figs. 2—5, or Fig. 6, of the accompanying drawings.

Dated this 14th day of February, 1935.  
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Agents for the Applicant.

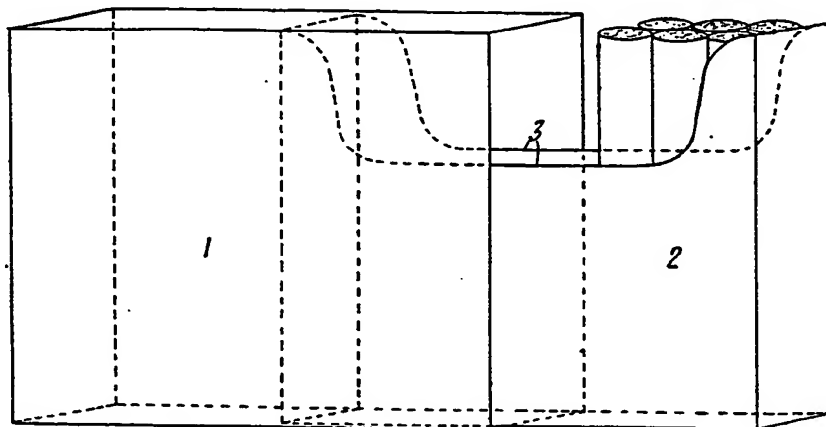


Fig. 1.

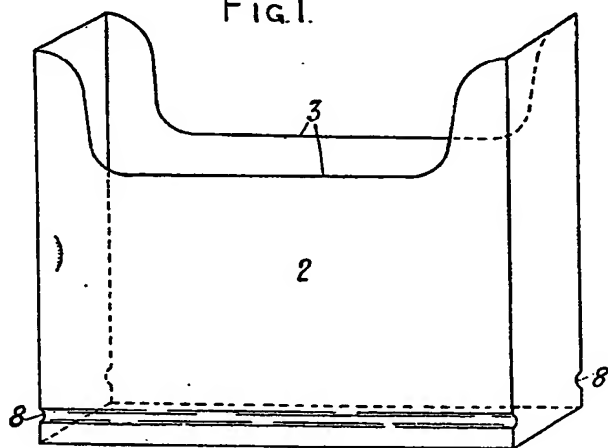


Fig. 3.

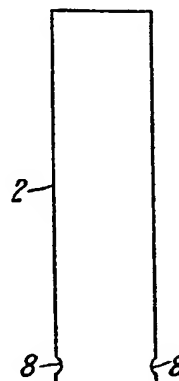


Fig. 4.

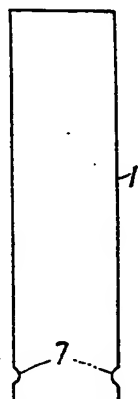


Fig. 5.

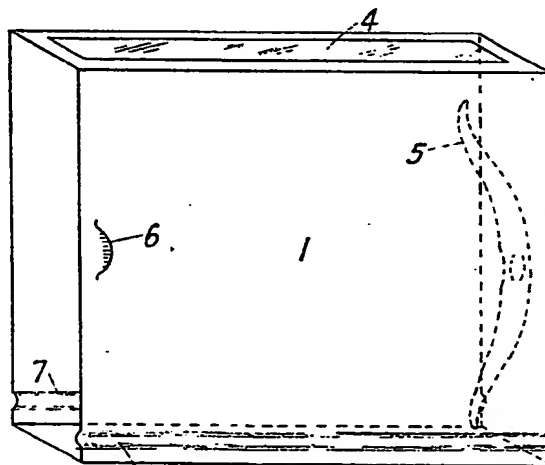


Fig. 2.

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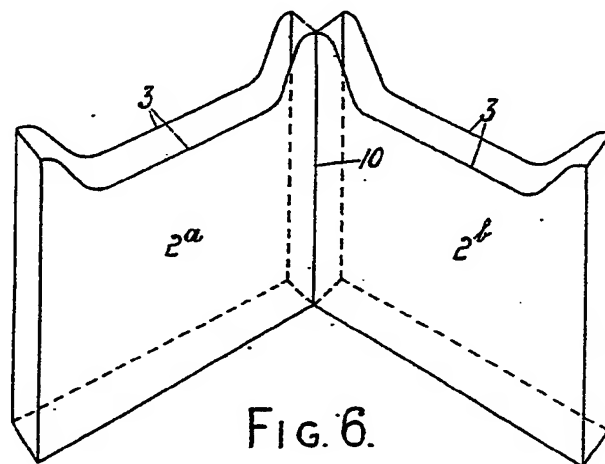


FIG. 6.

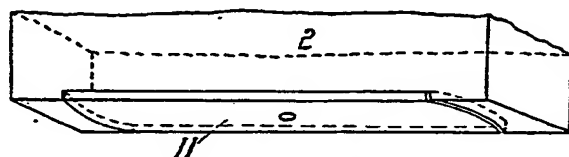


FIG. 7.

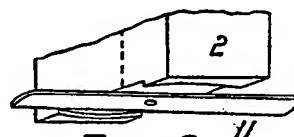


FIG. 8.

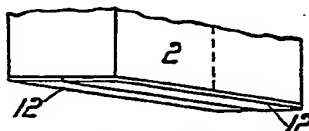


FIG. 9.



FIG. 10.

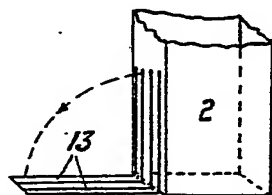


FIG. 11.

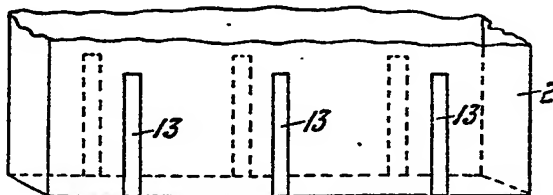


FIG. 12.

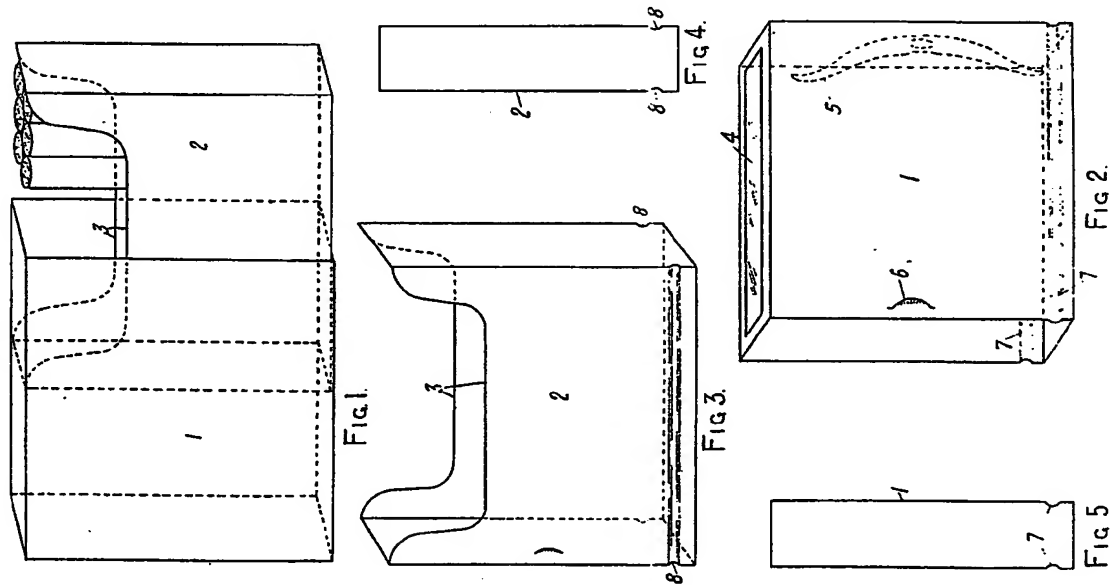
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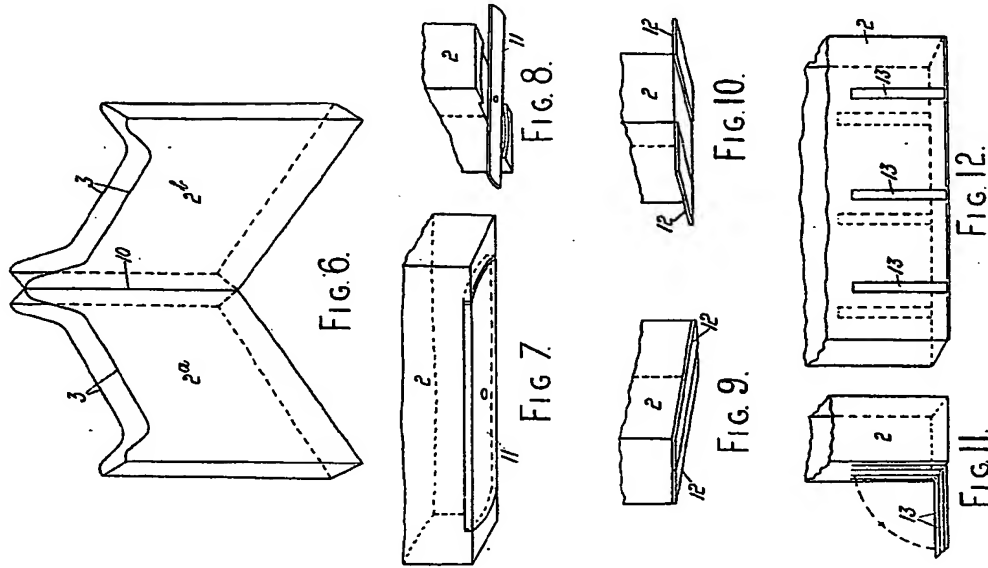
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SHEET 1



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2 SHEETS  
SHEET 2



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